CLAIMS:

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is:

1	1. A method for automatically launching an application in a computing
2	device by authenticating a user via a digital camera associated with said computing
3	device, said method comprising:
4	(a) obtaining a digital representation of said user via said digital camera;
5	(b) filtering said digital representation with an digital edge detection
6	algorithm to produce a resulting digital image;
7	(c) comparing said resulting digital image to a pre-stored digital image of
8	said user;
9	(d) retrieving user information including an application to be launched in
10	response to a successful comparison result, said user information being associated with
11	said pre-stored digital image of said user; and
12	(e) launching said application.
1	2. The method according to Claim 1, further comprising a step of: aligning
2	said user in relation to said computing device for obtaining a digital representation of said
3	user

- 1 3. The method according to Claim 1, further comprising a step of:
- 2 centering said resulting image with respect to a frame provided in said computing device.

1	4. The method according to Claim 1, said comparing step further
2	comprising a step of: sliding vertical and horizontal edges of said resulting image over
3	said pre-stored image for enabling said comparing.
1	5. The method according to Claim 1, wherein said resulting image and
2	said pre-stored image for said user are binary matrices.
1	6. The method according Claim 1, wherein said comparing step utilizes an
2	approximation filter to improve comparing of the resulting image with the pre-stored
3	image.
1	7. The method according to Claim 1, wherein said pre-stored digital image
2	of said user is stored in a database on said computing device.
1	8. The method according to Claim 1, wherein said application is an e-mail
2	client.
1	9. The method according to 8, said launching step further comprising a
2	step of: logging into said e-mail client by utilizing user information including username
3	and password associated with said user.
1	10. The method according to 8, further comprising a step of:

2	automatically retrieving one or more e-mail messages from said e-mail
3	client for said user; and
4	displaying said one or more e-mail messages to said user via a display.
1	11. The method according to Claim 1, further comprising a step of:
2	sensing said user in proximity to said computing device for obtaining said digital
3	representation of said user.
1	12. The method according to Claim 1, wherein said user interacts via an
2	interface with sad computing device for obtaining said digital representation of said user.
1	13. The method according to Claim 1, wherein said pre-stored digital
2	image for said user is obtained from a pre-existing digital representation of said user
3	filtered by an edge detection algorithm.
1	14. The method according to Claim 1, wherein said edge detection
2	algorithm is a one bit per pixel edge detection algorithm.
1	15. The method according to Claim 14, wherein said one bit per pixel edge
2	detection algorithm is a Sobel operator.
1	16. The method according to Claim 1, wherein said filtering step further
2	comprises a step of: filtering said resulting digital image with a second edge detection

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- algorithm which is selected from the group consisting of: a Laplacian filter; and a 3 Gaussian filter.
- 1 17. The method according to Claim 1, wherein in response to said 2 successful match, user information corresponding to said user including user's name is 3 displayed to said user on a visual display.
- 1 18. The method according to Claim 1, wherein if no match is found for 2 said user, said method further comprising the steps of:
- 3 prompting said user to enter user information associated with said pre-4 stored image of said user; and
- 5 launching said application in response to a successful match of entered user information to user information associated with said pre-stored image of said user. 6
- 1 19. The method according to Claim 1, said method further comprising a 2 step of: updating said pre-stored digital image of said user by merging said pre-stored 3 digital image with said resulting digital image to generate a composite image.
- 20. The method according to Claim 19, wherein said composite image is 1 2 generated by taking an arithmetical mean of said pre-stored digital image and said 3 resulting digital image.

1	21. The method as claimed in Claim 19, further comprising a step of:
2	processing said composite image with a least squares algorithm for improving definition
3	of edges in said composite image.
1	22. The method according to Claim 1, further comprising a step of:
2	prompting said user to confirm user information associated with said pre-
3	stored digital image in response to said successful match of said user.
1	23. A system for automatically launching an application in a computing
2	device by authenticating a user via a digital camera associated with said computing
3	device, said method comprising:
4	(a) a mechanism for obtaining a digital representation of said user via said
5	digital camera;
6	(b) a mechanism for filtering said digital representation with an digital
7	edge detection algorithm to produce a resulting digital image;
8	(c) a mechanism for comparing said resulting digital image to a pre-stored
9	digital image of said user; and
10	(d) a mechanism for retrieving user information including an application
11	to be launched in response to a successful comparison result, said user information being
12	associated with said pre-stored digital image of said user; and
13	(e) a mechanism for launching said application.

1	24. The system according to Claim 23, wherein said computing device is
2	connected to a communications network.
1	25. The system according to Claim 23, wherein said computing device is
2	incorporated into a household appliance or a security appliance.
1	26. The system according to Claim 23, wherein said application is an e-
2	mail client.
1	27. The method according to Claim 23, further comprising a mechanism
2	for aligning said user in relation to said computing device for obtaining a digital
3	representation of said user.
1	28. The method according to Claim 23, further comprising a mechanism
2	for centering said resulting image with respect to a frame provided in said computing
3	device.
1	29. The system according to Claim 23, further comprising a mechanism
2	for logging into said e-mail client by utilizing username and password associated with
3	said user.
1	30. The system according to Claim 23, said system further comprising:

2	a mechanism for retrieving one or more e-mail messages from said e-mail
3	client for said user in response to launching of said e-mail client; and
4	a mechanism for displaying said one or more e-mail messages to said user
5	via a display.
1	31. The method according to Claim 23, further comprising a mechanism
2	for sensing said user in proximity to said computing device for obtaining said digital
3	representation of said user.
1	32. The system according to Claim 23, wherein if no match is found for
2	said user, said system further comprising:
3	a mechanism for prompting said user to enter user information associated
4	with said pre-stored image of said user; and
5	a mechanism for launching said application in response to a successful
6	match of entered user information to user information associated with said pre-stored
7	image of said user.
1	33. The system according to Claim 23, said system further comprising:
2	a mechanism for updating said pre-stored digital image of said user by
3	merging said pre-stored digital image with said resulting digital image into a composite
4	image.

1	34. A program storage device readable by a machine, tangibly embodying
2	a program of instructions, executable by said machine to perform method steps for
3	automatically launching an application in a computing device by authenticating a user via
4	a digital camera associated with said computing device, said method steps comprising:
5	(a) obtaining a digital representation of said user via said digital camera;
6	(b) filtering said digital representation with an digital edge detection
7	algorithm to produce a resulting digital image;
8	(c) comparing said resulting digital image to a pre-stored digital image of
9	said user;
10	(d) retrieving user information including an application to be launched in
11	response to a successful comparison result, said user information being associated with
12	said pre-stored digital image of said user; and
13	(e) launching said application.